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**Graphing quadratics using vertex form**

**1. senteo pre-assess - prior knowledge 20 minutes**

- go over correct answers

**2. google docs presentation - 10 minutes**

- definitions of quadratic function

- differences in quadratic and linear

- forms of a quadratic equation

- vertex

- standard

- focus on vertex

- examples of equation and matching graph

**3. partner assignment - 45 minutes**

- vertex form activity on geo sketch

- click and drag values to explore changes in parabolic characteristics, vertex, etc.

- on a specified group wiki page, students enter equations relative to required qualities

- quadrant 1, open down; quadrant 3, open up; etc.

- each group presents a problem and explains significance of constants and coefficients in their equations with respect to its graph

**4. independent assignment - 15 minutes->homework**

- given 5-6 graphs on a basic geo sketch file without sliders and manipulatives, derive the equations that match the graphs

- solutions are to be entered into a google form and submitted